



MarinTrust Standard V2

By-product Fishery Assessment VEN01 Round Sardinella, FAO Area 31

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Table 1 Application details and summary of the assessment outcome

	Species:	Round Sardinella, Sardinella aurita
	Geographical area:	FAO 31
Fishery Under Assessment	Country of origin of the product:	Venezuela
	Stock:	FAO 31
Date		May 2023
Report Code		VEN01
Assessor	Sam Peacock	
Country of origin of the product - PASS	Venezuela	
Country of origin of the product - FAIL		None

Application details and	summary of the asses	sment outcome	
Company Name(s): Ha	arinera del Mar Caribe,	c.a.	
Country:			
Email address:		Applicant Cod	e:
Certification Body Deta	ails		
Name of Certification	Body:	LRQA	
Assessor	Peer Reviewer	Assessment Days	Initial/Surveillance/ Re-approval
Sam Peacock	Jose Peiro Crespo	0.2	Initial
Assessment Period		May 2023	– May 2024

Scope Details	
Main Species	Round Sardinella, Sardinella aurita
Stock	FAO 31
Fishery Location	FAO 31
Management Authority	Venezuela
(Country/ State)	Venezaela
Gear Type(s)	Pelagic trawl, purse seine
Outcome of Assessment	
Peer Review Evaluation	Pass
Recommendation	Pass

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Table 2. Assessment Determination

Assessment Determination

Round sardinella has been categorised by the IUCN as Least Concern and does not appear in the CITES appendices. There is no evidence that the stock is managed using regular stock assessments nor that there are any established reference points, and the stock was therefore assessed under Category D.

Round sardinella in Venezuela achieved a Productivity score of 1.43 and a Susceptibility score of 2.5, leading to a Pass rating on Table D3. For this reason the byproduct should be approved for use as a raw material in MT-certified products.

Fishery Assessment Peer Review Comments

The by-product fishery under assessment is the Round Sardinella (*Sardinella aurita*) fishery in FAO Area 31 (Atlantic western central). The species is listed as LC in the IUCN red list. No regular assessment is conducted for the species or reference points established. Therefore, it is assessed here under category D (risk assessment approach).

The species scoring table has been completed by the auditor, and sufficient evidence given to justify the scores and the final determination (the species passes the PSA analysis).

The peer review supports the auditor's recommendation to pass the Round sardinella fishery in FAO Area 31 under the Marin Trust IFFO RS v2.0 by-fishery standard for the production of fishmeal and fish oil.

Notes for On-site Auditor



Species Categorisation

NB: If any species is categorised as Endangered or Critically Endangered on the IUCN Red List, or if it appears in CITES Appendix 1, it **cannot** be approved for use as an MarinTrust raw material.

IUCN Red list Category

By-product material from a species listed by IUCN (the International Union for Conservation of Nature) under the Red List for the following categories shall immediately fail the assessment;

- EXTINCT (E) AND EXTINCT IN THE WILD (EW)
- CRITICALLY ENDANGERED (CR) facing an extremely high risk of extinction in the wild.
- ENDANGERED (EN) facing a very high risk of extinction in the wild.

By-product material may be used from the following categories provided that all clauses in the MarinTrust standard are passed.

- VULNERABLE (VU) facing a high risk of extinction in the wild.
- NEAR THREATENED (NT) does not qualify for above now, but is close or is likely to qualify for, a threatened category in the near future.
- LEAST CONCERN (LC) Widespread and abundant.
- DATA DEFICIENT (DD) and NOT EVALUATED (NE)

Table 3 Species Categorisation Table

Common name	Latin name	Stock	Management	Category	IUCN Red List Category ¹	CITES Appendix 1 ²
Round sardinella	Sardinella aurita	FAO 31	No ³	D	Least Concern ⁴	No

¹ <u>https://www.iucnredlist.org/</u>

² <u>https://cites.org/eng/app/appendices.php</u>

³ The assessor was not able to find any evidence of regular stock assessment, reference points, or catch quotas, and there is evidence that these were not in place as recently as 2018

⁽http://www.scielo.org.co/scielo.php?script=sci arttext&pid=S0122-97612018000100085)

⁴ https://www.iucnredlist.org/species/198581/115340607

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CATEGORY C SPECIES

In a by-product assessment, Category C species are those which are subject to a species-specific management regime and are usually targeted species in fisheries for human consumption.

Clause C1 should be completed for each Category C species. If there are no Category C species in the fishery under assessment, this section can be deleted. Where a species fails this Clause, it should be assessed as a Category D species instead.

Spe	ecies	Name	n/a	
C1	Catego	ory C Stock Sta	ntus - Minimum Requirements	
CI	C1.1		vals of the species in the fishery under assessment are included in the stock assessment are considered by scientific authorities to be negligible.	
	C1.2	reference po	s considered, in its most recent stock assessment, to have a biomass above the limit int (or proxy), OR removals by the fishery under assessment are considered by scientific o be negligible.	
			Clause outcome:	
	-		ne species in the fishery under assessment are included in the stock assessment proces horities to be negligible.	s, OR are
C1.2	dered by The spec r), OR rei	y scientific aut cies is conside		-
C1.2 ⁻ proxy Refer	dered by The spec	y scientific aut cies is conside	horities to be negligible. ered, in its most recent stock assessment, to have a biomass above the limit reference	-
C1.2 proxy Refer	dered by The spec r), OR ren ences	y scientific aut cies is conside	horities to be negligible. red, in its most recent stock assessment, to have a biomass above the limit reference fishery under assessment are considered by scientific authorities to be negligible.	-
C1.2 proxy Refer	dered by The spec r), OR ren ences	y scientific aut cies is conside movals by the	horities to be negligible. red, in its most recent stock assessment, to have a biomass above the limit reference fishery under assessment are considered by scientific authorities to be negligible.	-



CATEGORY D SPECIES

Category D species are those which are not subject to a species-specific management regime. In the case of mixed trawl fisheries, Category D species may make up the majority of landings. The comparative lack of scientific information on the status of the population of the species means that a risk-assessment style approach must be taken.

	Round Sardinella	
Productivity Attribute	Value	Score
Average age at maturity (years)	2.7 years	1
Average maximum age (years)	10.9 years	2
Fecundity (eggs/spawning)	26,555	1
Average maximum size (cm)	41cm	1
Average size at maturity (cm)	21.4cm	1
Reproductive strategy	Broadcast spawner	1
Mean trophic level	3.4	3
	Average Productivity Score	1.43
Susceptibility Attribute	Value	Score
Availability (area overlap)	<10% overlap	1
Encounterability (the position of the stock/species within	Targeted	3
the water column relative to the fishing gear)	Targeteu	5
Selectivity of gear type	Targeted	3
Post-capture mortality	Retained	3
	Average Susceptibility Score	2.5
	PSA Risk Rating (From Table D3)	PASS
	Compliance rating	PASS
affecting your decision	The Contraction	
affecting your decision		be uncerta

Round sardinella distribution, from Fishbase (<u>https://www.fishbase.se/summary/SpeciesSummary.php?ID=1043&AT=round+sardinella</u>)

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References

Fishbase, Sardinella aurita: https://www.fishbase.se/summary/SpeciesSummary.php?ID=1043&AT=round+sardinella

Standard clauses 1.3.2.2



Table D2 - Productivity / Susceptibility attributes and scores.

Productivity attributes	High productivity (Low risk, score = 1)	Medium productivity (medium risk, score = 2)	Low productivity (high risk, score = 3)
Average age at maturity	<5 years	5-15 years	>15 years
Average maximum age	<10 years	10-25 years	>25 years
Fecundity	>20,000 eggs per year	100-20,000 eggs per year	<100 eggs per year
Average maximum size	<100 cm	100-300 cm	>300 cm
Average size at maturity	<40 cm	40-200 cm	>200 cm
Reproductive strategy	Broadcast spawner	Demersal egg layer	Live bearer
Mean Trophic Level	<2.75	2.75-3.25	>3.25

Susceptibility attributes		ow susceptibility .ow risk, score = 1)		edium susceptibility nedium risk, score = 2)		igh susceptibility igh risk, score = 3)
Areal overlap (availability) Overlap of the fishing effort with the species range	<1	0% overlap	10	-30% overlap		0% overlap
Encounterability The position of the stock/species within the water column relative to the fishing gear, and the position of the stock/species within the habitat relative to the position of the gear	fis	w overlap with hing gear (low counterability).		edium overlap with hing gear.	fis en De	gh overlap with hing gear (high counterability). efault score for rget species
Selectivity of gear type	а	Individuals < size at maturity are rarely caught	а	Individuals < size at maturity are regularly caught.	а	Individuals < size at maturity are frequently caught
Potential of the gear to retain species	ь	Individuals < size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity can escape or avoid gear.	ь	Individuals < half the size at maturity are retained by gear.
Post-capture mortality (PCM) The chance that, if captured, a species would be released and that it would be in a condition permitting subsequent survival	re	vidence of majority leased post-capture d survival.	rel	idence of some eased post-capture d survival.	m	etained species or ajority dead when leased.

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D3		Average Susceptibility	Score	
		1 - 1.75	1.76 - 2.24	2.25 - 3
Average Productivity	1 - 1.75	PASS	PASS	PASS
Score	1.76 - 2.24	PASS	PASS	TABLE D4
	2.25 - 3	PASS	TABLE D4	TABLE D4

D4	Spe	cies Name	
	Impac	ts On Species Categorised as Vuln	erable by D1-D3 - Minimum Requirements
	D4.1	The potential impacts of the fis	hery on this species are considered during the management
		process, and reasonable measur	es are taken to minimise these impacts.
	D4.2	There is no substantial evidence	e that the fishery has a significant negative impact on the
		species.	
			Outcome:
		easures are taken to minimise the	se impacts.
		o substantial evidence that the f	ishery has a significant negative impact on the species.
Refere		o substantial evidence that the f	ishery has a significant negative impact on the species.
Links	ences		
Links Marin	ences Trust Sta	no substantial evidence that the f	1.3.2.2, 4.1.4
Links	ences Trust Sta		